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July 24, 2002 Date

ven L. Nighlander

Commissioner for Patents Washington, DC 20231

SHIGHLANDER@FULBRIGHT.COM

Re:

U.S. Patent Application No. 10/043,877 entitled "ANTIHELMINTHIC DRUGS AS A TREATMENT FOR HYPERPROLIFERATIVE DISEASES" by Tapas Mukhopadhyay

et al.

Our Reference: INRP:095US Client Reference: MDA99-067

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references (B1-B2, C1-C18).

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is hereby authorized to deduct said fees from Fulbright & Jaworski Deposit Account No.: 50-1212/INRP:095US.

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Respectfully submitted,

Steven L. Highlander

SLH/cmb Encl.: as noted

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In re Application of:

Tapas Mukhopadhyay et al

Serial No.: 10/043,877

Filed: January 9, 2002

For: ANTIHELMINTHIC DRUGS AS A

TREATMENT FOR

HYPERPROLIFERATIVE DISEASES

Group Art Unit: 1641

Examiner: Unknown

Atty. Dkt. No.: INRP:095US

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Date

Steven Highlander

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is hereby authorized to deduct said fees from Fulbright & Jaworski Deposit Account No.: 50-1212/INRP:095US.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

Steven L. Highlander

Reg. No. 37,642

Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P. 600 Congress Avenue, Suite 2400 Austin, Texas 78701 (512) 474-5201

Date:

July 24, 2002

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U.S. Patent Documents See Page 1	Foreign	Patent Documents	Other A	art
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	WO 98/32440	7/30/98	PCT			
	B2	WO 98/51304	11/19/98	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Ref. Init. Des.		Citation				
	C1	Bossche et al., Chemotherapy of Gastrointestinal Helminths., Arundel et al., (eds.), Springer-Verlag, 1985, In: Handbook of Experimental Pharmacology, Vol 77, Born et al., (eds.).				
	C2	Davidse, "Benzimidazole fungicides: mechanism of action and biological impact," <i>Ann. Rev. Phytopathol.</i> , 24:43-65, 1986.				
	C3	Friedman and Platzer, "Interaction of anthelmintic benzimidazoles and benzimidazole derivatives with bovine brain tubulin," <i>Biochim. Biophys. Acta</i> , 544:605-614, 1978.				
	C4	Friedman and Platzer, "Interaction of anthelmintic benzimidazoles with ascaris suum embronic tubulin," <i>Biochim. Biophys. Acta</i> , 630:271-278, 1980.				
	C5	Gottschall et al., "The metabolism of benzimidazole anthelmintics," Parasitol. Today, 6:115-124, 1990.				
	C6	Kohler and Bachmann, "Intestinal tubulin as possible target for the chemotherapeutic action of mebendazole in parasitic nematodes," <i>Mol. Biochem. Parasitol.</i> , 4:325-336, 1981.				
	C7	Lacey and Prichard, "Interactions of benzimidazoles (BZ) with tubulin from BZ-sensitive and BZ-resistant isolates of Haemonchus contortus," <i>Mol Biochem Parasitol</i> , 19:171-181, 1986.				
	C8	Lacey and Watson, "Structure-activity relationships of benzimidazole carbamates as inhibitors of mammalian tubulin, in vitro," <i>Biochem. Pharmacol.</i> , 34(7):1073-1077, 1985.				

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EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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U.S. Patent Documents See Page 1

Foreign Patent Documents See Page 1

Other Art See Page 1

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	С9	Lacey and Watson, "Activity of benzimidazole carbamates against L1210 mouse leukaemia cells: correlation with in vitro tubulin polymerization assay," <i>Biochem. Pharmacol.</i> , 34(19):3603-3605, 1985.
	C10	Lacey, "The role of the cytoskeletal protein, tubulin, in the mode of action and mechanism of drug resistance to benzimidazoles," <i>Int. J. Parasitol.</i> , 18:885-936, 1988.
	C11	Lanusse et al., "Methimazole-mediated modulation of netobimin biotransformation in sheep: a pharmacokinetic assessment," J Vet Pharmacol Ther, 15(3):267-274, 1992
	C12	Lanusse et al., "Comparative sulphoxidation of albendazole by sheep and cattle liver microsomes and the inhibitory effect of methimazole," <i>Xenobiotica</i> , 23(3):285-295, 1993.
	C13	Lubega, and Prichard, "Specific interaction of benzimidazole anthelmintics with tubulin: high-affinity binding and benzimidazole resistance in Haemonchus contortus," <i>Mol. Biochem. Parasitol.</i> , 38:221-232, 1990.
	C14	Nare et al., "Benzimidazoles, potent anti-mitotic drugs: substrates for the P-glycoprotein transporter in multidrug-resistant cells," Biochem. Pharmacol., 48(12):2215-2222, 1994.
	C15	Nare, et al., "p-azidosalicyl-5-amino-6-phenoxybenzimidazole photolabels the N-terminal 63-103 amino acids of Haemonchus contortus β-Tubulin 1," J Biol Chem, 271(15):8575-8581, 1996.
	C16	Pilch et al. "Characterizing the DNA binding modes of a topoisomerase 1-poisoning terbenzimidazole: evidence for both intercalative and minor groove binding properties," <i>Drug Des Discov</i> , 13:115-133, 1996.
	C17	Russell <i>et al.</i> , "Binding of [³ H]Benzimidazole carbamates to mammalian brain tubulin and the mechanism of selective toxicity of the benzimidazole anthelmintics," <i>Biochem. Pharmacol.</i> , 43(5):1095-1100, 1992.
	C18	Stearns et al., "Liarozole and 13-cis-retinoic acid anti-prostatic tumor activity," <i>Cancer Res</i> , 53:3073-3077, 1993.

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